



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010452
CERTIFICATION DATE: November 14, 2013
DATE RECERTIFICATION DUE: May 13, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

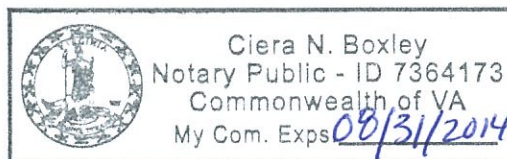
Melissa Kennedy
Program Manager, Calibration & Training

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 2nd day of
December, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014
TLN



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 11/19/2013

HMS
MSK

Instrument Serial Number: 010452

As of 19-Nov-13

Maintenance Date	Certification Date	Technician Initials	Remarks
14-Nov-13	14-Nov-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
06-Jun-13	06-Jun-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
15-Apr-13	15-Apr-13	HMS (18910)	MOVED INSTRUMENT TO NEW LOCATION, CERTIFIED
13-Dec-12	13-Dec-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
27-Jun-12	27-Jun-12	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
20-Jan-12	20-Jan-12	HMS (18910)	CERTIFIED
03-Aug-11	03-Aug-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
08-Feb-11	08-Feb-11	RJP (22428)	CERTIFIED.
24-Aug-10	24-Aug-10	RJP (22428)	CERTIFIED.
11-Mar-10	11-Mar-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
14-Sep-09	14-Sep-09	DBH (21250)	CERTIFIED.
25-Mar-09	25-Mar-09	RJP (22428)	CERTIFIED.
23-Mar-09	23-Mar-09	NMJ (22392)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
19-Mar-09	19-Mar-09	MSK (21355)	REPLACED TANK TOP LID, CERTIFIED.
22-Oct-08	22-Oct-08	RJP (22428)	CERTIFIED.
16-Oct-08	16-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

Handwritten initials: *AMS*
MSK

INTOX EC/IR II

Quality Assurance Worksheet

Instrument Serial Number: 010452 Worksheet Start Date: 11/14/2013

Location: Russell County

Address: 42 Court Ave., Lebanon, VA 24266

DFS Technician: Heather Stanton License No.: 18910

☐ Laboratory ☒ On-Site

Site Specifications

	Yes	No
1 Secured Environment: Location must not be accessible to the general public.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Environment free from contaminants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3 Dedicated telephone line: The phone line should be used solely by the instrument.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 Adequate Ventilation: Enough space must be provided for the instrument and the printer to allow for adequate ventilation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5 Stable temperature controls: The instrument should not be exposed to direct sources of temperature variation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 115VAC power source: Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7 Room Condition: The site should be free of excessive moisture, heat and dust.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Old serial no.	New serial no.	Supplies
E-Seek		Mouthpieces
Keyboard		Certificates of Analysis
Printer		Operator Worksheet
UPS		Other:

50
2 pads

Maintenance (if any)
Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010452

Certification Date 11/14/2013

Instrument Barometer (mm HG) 716

Reference Barometer (mm HG) 718

Reference Barometer(RB)Serial # 009113

RB Calibration Due 5/8/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.250	0.236	0.228	0.243	Sample 2	0.234
Precision		sample min	sample max	Sample 3	0.234
0		0.234	0.234		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.150	0.141	0.136	0.145	Sample 2	0.141
Precision		sample min	sample max	Sample 3	0.141
0		0.141	0.141		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.080	0.075	0.072	0.078	Sample 2	0.075
Precision		sample min	sample max	Sample 3	0.075
0		0.075	0.075		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.020	0.019	0.016	0.022	Sample 2	0.018
Precision		sample min	sample max	Sample 3	0.018
0		0.018	0.018		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☐ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG230501-39

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.100	0.094	0.091	0.097	Sample 2	0.095
Precision		sample min	sample max	Sample 3	0.095
0		0.095	0.095		

DFS Technician

Heath W. Starch

Date

11/19/13

Issuing Analyst

Melissa Kennedy

Date

11/23/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

DFS Document 250-F113

Revision 6

Page 2 of 2




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

Handwritten initials: HHS and MK

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 11/14/2013
TEST EQUIPMENT NUMBER 010452		

RESULTS: TIME SAMPLE TAKEN 09:20 EST
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:
I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 19 Nov 2013 at 13:29

AMS
WJK

Test Results

Instrument Serial Number 010452

Test # 000584 Subject Test

Test Location 1 Department of
Test Date 14 Nov 2013

Test Location 2 Forensic Science
Test Time 09:13
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 14 Nov 2013 End Time 09:21

Result Time 09:20

Result Date 14 Nov 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 09:14

Data Type BLK

Sample Value 0.000

Sample Time 09:14

Data Type CHK

Sample Value 0.094

Sample Time 09:15

Data Type BLK

Sample Value 0.000

Sample Time 09:16

Data Type SUBJ

Sample Value 0.000

Sample Time 09:17

Data Type BLK

Sample Value 0.000

Sample Time 09:18

Data Type SUBJ

Sample Value 0.000

Sample Time 09:20

Data Type BLK

Sample Value 0.000

Sample Time 09:21

Standard Type Dry Gas Std

Standard Value 0.094

Standard Lot Number AG230501-39

Standard Expiration Date 10/31/2014

Tank Pressure 1031

Barometric Pressure 717 mmHg

Blow Sample Number 1 Blow Duration 3.50 sec

Blow Volume 1724 cc

End-of-Blow Time 09:17

Blow Sample Number 2 Blow Duration 3.68 sec

Blow Volume 1723 cc

End-of-Blow Time 09:20

Tamper Evident Stamp fae7a345

Test Status Code 0

Test Status Success

ANS
MK

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010452 Test Number: 585

Test Date: 11/14/2013 Test Time: 09:24 EST

Dry Gas Target: 0.094

Lot Number: AG230501-39 Exp Date: 10/31/2014

Tank Pressure: 1026 psi Barometric Pressure: 717 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	09:24
CHK	0.094	09:25
BLK	0.000	09:27
CHK	0.094	09:27
BLK	0.000	09:29
CHK	0.094	09:29

Test Status: *Success*

Calibration CRC: 2A91E51B

AMS
MSK

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010452 Test Number: 586

Test Date: 11/14/2013 Test Time: 09:33 EST

Dry Gas Target: 0.283

Lot Number: AG322702-01 Exp Date: 08/15/2015

Tank Pressure: 237 psi Barometric Pressure: 717 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	09:33
CHK	0.280	09:34
BLK	0.000	09:36
CHK	0.280	09:36
BLK	0.000	09:38
CHK	0.280	09:38

Test Status: *Success*

Calibration CRC: 2A91E51B

HUB
NXX

Intox EC/IR-II: Software Version

Department of Forensic Science

Serial Number: 010452

System Date: 11/14/2013

System Time: 10:04 EST

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

HMS
N/A

Intox EC/IR-II: Calibration

Department of Forensic Science

Serial Number: 010452 Test Number: 587

Test Date: 11/14/2013 Test Time: 10:06 EST

Dry Gas Target: 0.094

Lot Number: 0651210013-06 Exp Date: 04/01/2014

Tank Pressure: 585 psi Barometric Pressure: 716 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	10:06
CAL	0.094	10:07

Test Status: Success

Calibration CRC: 839A89E7

HMS
ML

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010452 Test Number: 588
Test Date: 11/14/2013 Test Time: 10:10 EST

Technician Initials: *HMS*

Dry Gas Target: 0.236

Lot Number: 2961225012-08 Exp Date: 11/01/2014

Tank Pressure: 311 psi Barometric Pressure: 716 mmHg
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:10
BLK	0.000	10:11
CHK	0.234	10:12
BLK	0.000	10:13
CHK	0.234	10:14
BLK	0.000	10:15
CHK	0.234	10:16
BLK	0.000	10:18

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS
PSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010452 Test Number: 589
Test Date: 11/14/2013 Test Time: 10:22 EST

Technician Initials: HMS

Dry Gas Target: 0.141

Lot Number: 2951215012-02 Exp Date: 11/01/2014

Tank Pressure: 884 psi Barometric Pressure: 716 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:22
BLK	0.000	10:23
CHK	0.141	10:24
BLK	0.000	10:25
CHK	0.141	10:26
BLK	0.000	10:27
CHK	0.141	10:28
BLK	0.000	10:29

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS
msk

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010452 Test Number: 590
Test Date: 11/14/2013 Test Time: 10:31 EST

Technician Initials: *HMS*

Dry Gas Target: 0.075

Lot Number: 0771308012-04 Exp Date: 05/01/2015

Tank Pressure: 875 psi Barometric Pressure: 716 mmHg
System Check: *Passed*

Test	g/210L	Time
DIAG=	Pass	10:32
BLK	0.000	10:33
CHK	0.075	10:33
BLK	0.000	10:35
CHK	0.075	10:35
BLK	0.000	10:37
CHK	0.075	10:37
BLK	0.000	10:39

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS
not

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010452 Test Number: 591
Test Date: 11/14/2013 Test Time: 10:40 EST

Technician Initials: HMS

Dry Gas Target: 0.019

Lot Number: 0771302011-04 Exp Date: 05/01/2015

Tank Pressure: 1026 psi Barometric Pressure: 715 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	10:41
BLK	0.000	10:41
CHK	0.018	10:42
BLK	0.000	10:44
CHK	0.018	10:44
BLK	0.000	10:46
CHK	0.018	10:46
BLK	0.000	10:48

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

HMS
NSK

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010452 Test Number: 592

Test Date: 11/14/2013 Test Time: 10:50 EST

Dry Gas Target: 0.282

Lot Number: AG322702-01 Exp Date: 08/15/2015

Tank Pressure: 232 psi Barometric Pressure: 715 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:51
CHK	0.286	10:52
BLK	0.000	10:54
CHK	0.285	10:54
BLK	0.000	10:56
CHK	0.285	10:57

Test Status: *Success*

Calibration CRC: 839A89E7

Ans
note

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010452 Test Number: 593

Test Date: 11/14/2013 Test Time: 10:59 EST

Dry Gas Target: 0.094

Lot Number: AG230501-39 Exp Date: 10/31/2014

Tank Pressure: 997 psi Barometric Pressure: 715 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	11:00
CHK	0.095	11:01
BLK	0.000	11:03
CHK	0.095	11:03
BLK	0.000	11:05
CHK	0.095	11:05

Test Status: *Success*

Calibration CRC: 839A89E7




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

AND
PWK

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 11/14/2013
TEST EQUIPMENT NUMBER 010452		

RESULTS: TIME SAMPLE TAKEN 11:13 EST
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 19 Nov 2013 at 13:30

Handwritten initials: HMB and NAK

Test Results

Instrument Serial Number 010452

Test # 000594 Subject Test

Test Location 1 Department of
Test Date 14 Nov 2013

Test Location 2 Forensic Science
Test Time 11:07
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab
Card Serial Number 118910
Subject's Last Name INSTRUMENT
Subject's Middle Initial
Driver's License Number

Operator's First Name HEATHER Operator's Middle Initial M

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's First Name TEST

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 14 Nov 2013 End Time 11:14

Result Time 11:13

Result Date 14 Nov 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 11:07

Data Type BLK

Sample Value 0.000

Sample Time 11:08

Data Type CHK

Sample Value 0.095

Sample Time 11:09

Data Type BLK

Sample Value 0.000

Sample Time 11:10

Data Type SUBJ

Sample Value 0.000

Sample Time 11:11

Data Type BLK

Sample Value 0.000

Sample Time 11:12

Data Type SUBJ

Sample Value 0.000

Sample Time 11:13

Data Type BLK

Sample Value 0.000

Sample Time 11:14

Standard Type Dry Gas Std

Standard Value 0.094

Standard Lot Number AG230501-39

Standard Expiration Date 10/31/2014

Tank Pressure 987

Barometric Pressure 715 mmHg

Blow Sample Number 1 Blow Duration 3.45 sec

Blow Volume 1705 cc

End-of-Blow Time 11:11

Blow Sample Number 2 Blow Duration 3.51 sec

Blow Volume 1711 cc

End-of-Blow Time 11:13

Tamper Evident Stamp b5b79531

Test Status Code 0

Test Status Success